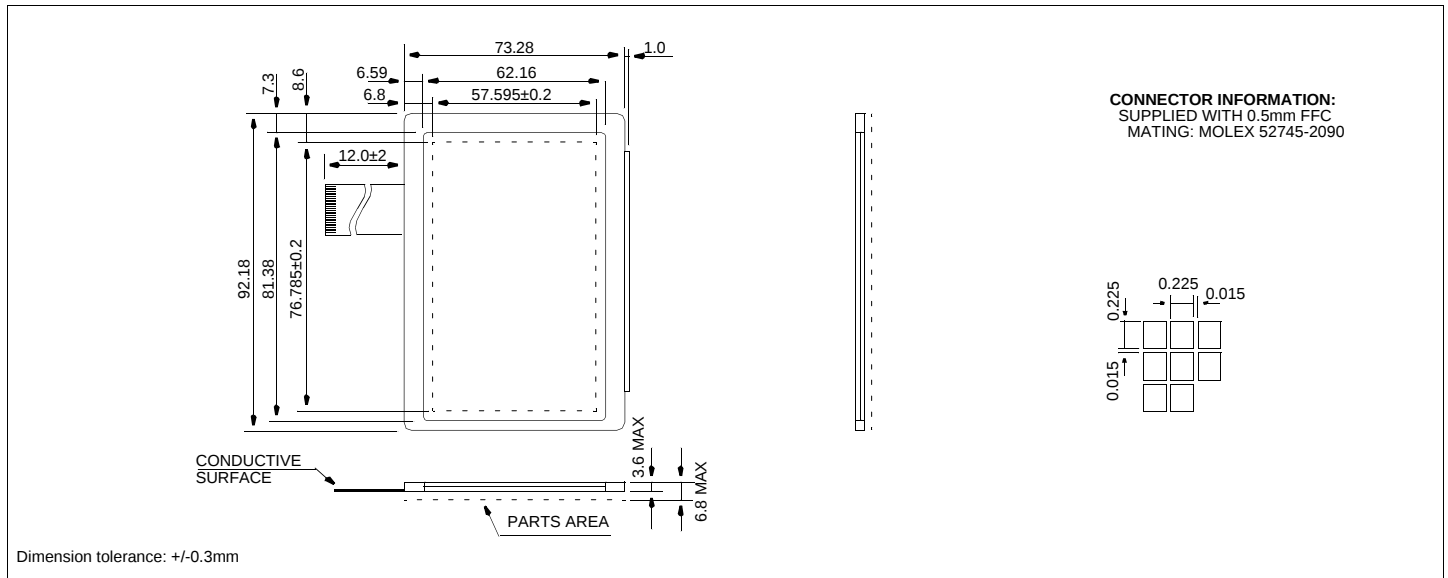


HDM 2432TS-T

Dimensional Drawing

240 X 320 Dots Graphic (Portrait Mode) w/ Touch Screen



Features

Backlight.....EL
 Options.....Black and White FSTN
 Extended Temperature
 Bottom Viewing
 Built-in Controller.....None

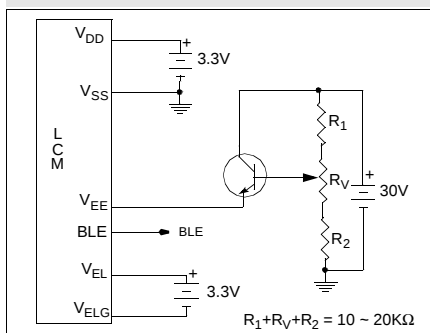
Physical Data

Module Size.....73.28W x 92.18H x 6.5T mm
 Viewing Area Size.....62.16W x 81.38H mm
 Dot Pitch.....0.24W x 0.24H mm
 Dot Size.....0.225W x 0.225H mm
 Weight.....52g

Absolute Maximum Ratings

PARAMETER	SYMBOL	MIN	MAX	UNIT
SUPPLY VOLTAGE	$V_{DD}-V_{SS}$	0	7.0	V
SUPPLY VOLTAGE FOR LCD	$V_{DD}-V_{EE}$	0	30.0	V
INPUT VOLTAGE	V_{IN}	-	7.0	V
OPERATING TEMPERATURE	T_{OP}	-20	70	°C
STORAGE TEMPERATURE	T_{STG}	-30	80	°C

Power Supply



Electrical Characteristics (VDD=3.3±0.25V 25°C)

PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
INPUT HIGH VOLTAGE	V_{IH}	-	0.7 V_{DD}	-	-	V
INPUT LOW VOLTAGE	V_{IL}	-	-	-	0.3 V_{DD}	V
OUTPUT HIGH VOLTAGE	V_{OH}	$I_{OH} = 0.4mA$	$V_{DD} - 0.4$	-	-	V
OUTPUT LOW VOLTAGE	V_{OL}	$I_{OL} = 0.4mA$	-	-	0.4	V
SUPPLY VOLTAGE	V_{DD}	-	3.0	3.3	3.6	V
	$-V_{EE}$	-	24.2	22.7	20.3	V
DRIVE METHOD	1/240 DUTY					

Pin Connections

PIN NO.	SYMBOL	LEVEL	FUNCTION
DATA			
1	CL2	H/L	Data shift clock
2	CL1	H/L	Data Latch clock
3	FLM	H/L	First Line Marker
4	M	H/L	AC signal
5	D0	H/L	Display data
6	D1	H/L	
7	D2	H/L	
8	D3	H/L	
9	V _{EE}	-	Power supply for LCD
10	V _{DD}	3.3V	Power supply for logic
11	V _{SS}	0V	Ground
12	BLE	H/L	H = Enable EL, L = Dissable EL
13	V _{ELG}	-	Power supply for EL
14	V _{EL}	-	
TOUCH PANEL			
15	X _P	-	Touch panel connections
16	Y _M	-	
17	X _M	-	
18	Y _P	-	